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### (54) Security device for a video digital to analog converter

(57) A method and circuits for checking of a pattern on a display is provided where the CRC of the pattern is calculated and compared to a CRC reference. A blanking signal is produced when the two patterns do not match. For additional security the CRC circuit can generate a second CRC value based on a second seed

value and the video pixel data. The comparison circuit compares the second CRC value to a second CRC reference stored in a second member. Having two CRC values increases the security, because to keep the D/A converter from shutting down either the protected pattern or a different pattern that produces two identical CRC values has to be generated.

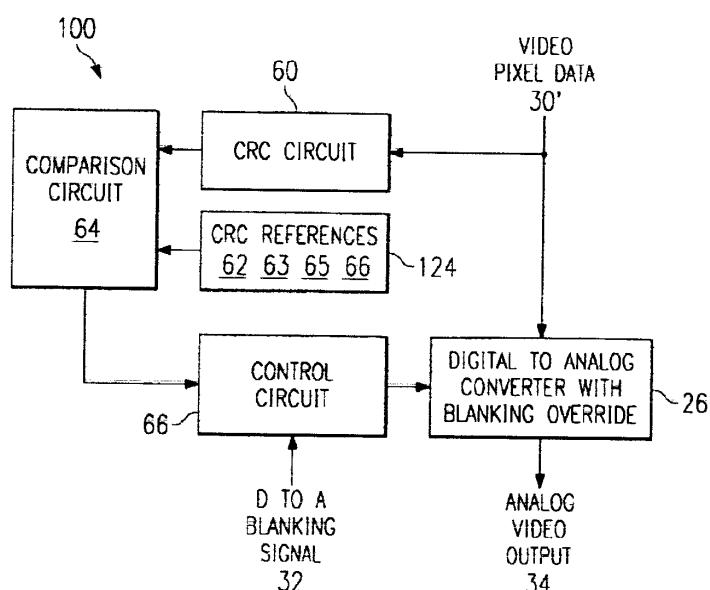


FIG. 2

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## EUROPEAN SEARCH REPORT

Application Number  
EP 98 30 0790

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The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	21 May 1999	Herreman, G	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

21-05-1999

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